

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	380	(config\$9 reconfig\$5) with (unified heterogen\$5) near8 interface\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/15 08:15
L2	791	(config\$9 reconfig\$5) with (unif\$5 heterogen\$5) near8 interface\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/15 08:12
L3	93	1 and @ad<"20011204"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/15 08:13
L4	283	2 and @ad<"20011204"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/15 08:19
L5	1229	(710/10,11).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/15 08:14
L6	1640	(700/83).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/15 08:19
L7	4	5 and 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/15 08:14
L8	0	7 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/15 08:14

## EAST Search History

L9	2	"20030109942"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/15 08:16
L13	59	((smart\$5 intelligent\$5 unified) near9 interface\$3) with heterogen\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/15 08:18
L14	0	6 and 13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/15 08:23
L15	5	13 and @ad<"20011204"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/15 08:23
L16	1960	(710/8,63).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/15 08:23
L17	0	16 and 13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/15 08:23
L18	21	2 and 13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/15 08:25
L19	6	2 and 16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/15 08:25



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Relevance scale ☐ ☐ ☐ ☐ ☐

### 1 [Aladdin/lamp: Configuration management tools for distributed computer control](#)

[systems](#)

A. Pakstas

 October 1989 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2nd International Workshop on Software configuration management**, Volume 14 Issue 7
**Publisher:** ACM PressFull text available: pdf(510.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The problem of the automation of the development of distributed software configuration (DSC) in the distributed computer control systems (DCCS) is discussed. The present paper deals with the building technology of the organisation of the interactions environment of applicational programs through the constructions like "information transport port" (ITP); On the basis of the DCCS structural model the system architects' language ALADDIN is developed. It is designated for the contro ...

### 2 [Tools: Virtual routers: a tool for networking research and education](#)



Florian Baumgartner, Torsten Braun, Eveline Kurt, Attila Weyland

July 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 3**Publisher:** ACM PressFull text available: pdf(284.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Virtual routers are software entities, i.e. user space processes, emulating IP routers on one or several (Linux) computers. Virtual routers can be used for both networking research and education. In contrast to simulation, virtual routers process packets in real-time and the virtual router code is similar to code in real routers. In the case of research, larger network test-beds can be built using a relatively small number of computers. New functionalities such as new queuing mechanisms are supp ...

**Keywords:** distance learning, network emulation, networking, performance evaluation

### 3 [The Proteus presentation system](#)



Susan L. Graham, Michael A. Harrison, Ethan V. Munson

 November 1992 **ACM SIGSOFT Software Engineering Notes , Proceedings of the fifth ACM SIGSOFT symposium on Software development environments SDE 5**, Volume 17 Issue 5
**Publisher:** ACM PressFull text available: pdf(1.10 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software development environments can increase user productivity by presenting information in more useful ways. This paper describes Proteus, the presentation system of

Ensemble, a software development environment that supports a wide variety of language and document capabilities. Proteus provides a set of services which allow the appearance of software development documents, such as programs or design specifications, to be determined by formal specifications of style. Proteus is based on a ...

#### 4 Hand gesture coding based on experiments using a hand gesture interface device

 Tomoichi Takahashi, Fumio Kishino  
March 1991 **ACM SIGCHI Bulletin**, Volume 23 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(508.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

It would be ideal for computer-human interaction if a computer could understand human gestures. Hand gestures are one means of interaction between computers and humans[1][2]. A hand gesture interface device, the VPL Data Glove™, provides real-time information on a user's hand movement[3].

#### 5 Towards interprocess communication and interface synthesis for a heterogeneous real-time rapid prototyping environment

Franz Fischer, Annette Muth, Georg Fäber  
March 1998 **Proceedings of the 6th international workshop on Hardware/software codesign CODES/CASHE '98**

**Publisher:** IEEE Computer Society


Full text available:  pdf(70.47 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)  
 [Publisher Site](#)

**Keywords:** SDL, communication synthesis, hard real-time, rapid prototyping, task classification model

#### 6 Internet-Based Collaborative Test Generation with MOSCITO

A. Schneider, K. Diener, E. Ivask, J. Raik, R. Ubar, P. Miklos, T. Cibáková, E. Gramatová  
March 2002 **Proceedings of the conference on Design, automation and test in Europe DATE '02**

**Publisher:** IEEE Computer Society

Full text available:  pdf(419.63 KB) Additional Information: [full citation](#), [abstract](#)

This paper offers an Internet-based environment for enhancing problem-specific design flows with test pattern generation and fault simulation capabilities. Automatic Test Pattern Generation (ATPG) and fault simulation tools at structural and hierarchical levels available at geographically different places running under the virtual environment using the MOSCITO system are presented. These tools can be used separately, or in multiple applications, for test pattern generation of digital circuits. In order ...

#### 7 Virtual reality: The use of visual and auditory feedback for assembly task performance in a virtual environment

 Ying Zhang, Reza Sotudeh, Terrence Fernando  
May 2005 **Proceedings of the 21st spring conference on Computer graphics SCCG '05**

**Publisher:** ACM Press

Full text available:  pdf(317.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents our creation and evaluation of multi-modal interface for a virtual assembly environment (VAE). It involves implementing an assembly simulation environment with multi-sensory feedback (visual and auditory), and evaluating the effects of multi-modal feedback on assembly task performance. This virtual environment experimental platform brought together complex technologies such as constraint-based assembly simulation, optical motion tracking technology, and real-time 3D sound generation ...

**Keywords:** assembly simulation, multi-sensory feedback, task performance, usability, user-centered design, virtual environments

## 8 Mobile router technology development

 William D. Ivancic, David H. Stewart, Terry L. Bell, Brian A. Kachmar, Dan Shell, Kent Leung  
July 2001 **Proceedings of the 4th ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems MSWIM '01**

**Publisher:** ACM Press

Full text available:  pdf(541.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Cisco System and NASA have been performing joint research on mobile routing technology under a NASA Space Act Agreement. Cisco developed mobile router technology and provided that technology to NASA for applications to aeronautic and space-based missions. NASA has performed stringent performance testing of the mobile router, including of the interaction of routing and transport level protocols. This paper describes mobile routing, the mobile router, and some key configuration parameters. In a ...

## 9 Compiler construction: an advanced course


F. L. Bauer, F. L. De Remer, M. Griffiths, U. Hill, J. J. Horning, C. H. A. Koster, W. M. McKeeman, P. C. Poole, W. M. Waite, G. Goos, J. Hartmanis  
January 1974 Book

**Publisher:** Springer-Verlag New York, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

The Advanced Course took place from March 4 to 15, 1974 and was organized by the Mathematical Institute of the Technical University of Munich and the Leibniz Computing Center of the Bavarian Academy of Sciences, in co-operation with the European Communities, sponsored by the Ministry for Research and Technology of the Federal Republic of Germany and by the European Research Office, London.

## 10 Technical papers: software presentation: Towards large-scale information integration

 Kenneth M. Anderson, Susanne A. Sherba, William V. Lepthien  
May 2002 **Proceedings of the 24th International Conference on Software Engineering ICSE '02**

**Publisher:** ACM Press

Full text available:  pdf(1.46 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software engineers confront many challenges during software development. One challenge is managing the relationships that exist between software artifacts. We refer to this task as information integration, since establishing a relationship between documents typically implies that an engineer must integrate information from each of the documents to perform a development task. In the past, we have applied open hypermedia techniques and technology to address this challenge. We now extend this work ...

## 11 Building virtual sensors and actuators over logical neighborhoods

 Pietro Ciciriello, Luca Mottola, Gian Pietro Picco  
November 2006 **Proceedings of the international workshop on Middleware for sensor networks MidSens '06**

**Publisher:** ACM Press

Full text available:  pdf(453.25 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent trends in wireless sensor network (WSN) applications exhibit increasing degrees of decentralization. This is particularly true of scenarios where the data reported by *sensors* is used to control *actuators* affecting the environment. Implementing this control loop in a decentralized fashion is much more complex than in mainstream, single-sink, sense-only applications. In this paper we describe *virtual nodes*, a programming abstraction

simplifying the development of decentr ...

**Keywords:** abstractions, middleware, wireless sensor networks

12 Algorithm 867: QUADLOG---a package of routines for generating Gauss-related quadrature for two classes of logarithmic weight functions



Nelson H. F. Beebe, James S. Ball

August 2007 **ACM Transactions on Mathematical Software (TOMS)**, Volume 33 Issue 3

**Publisher:** ACM Press

Full text available: pdf(208.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A collection of subroutines and examples of their uses are described for the quadrature method developed in the companion article. These allow the exact evaluation (up to computer truncation and rounding errors) of integrals of polynomials with two general types of logarithmic weights, and also with the corresponding nonlogarithmic weights. The recurrence coefficients for the related nonclassical orthogonal polynomials with logarithmic weight functions can also be obtained. Tests of accuracy ...

**Keywords:** EISPACK pythag() function, Gauss-Chebyshev quadrature, Gauss-Jacobi quadrature, Gauss-Laguerre quadrature, Gauss-Legendre quadrature, Gauss-type quadrature, Maple symbolic algebra system, Mehler quadrature, gamma-function testing, logarithmic integrals, machine-epsilon testing, orthogonal polynomials, psi-function testing, software portability, software testing

13 Heterogeneous configuration management with DSEE



David Lubkin

May 1991 **Proceedings of the 3rd international workshop on Software configuration management**

**Publisher:** ACM Press

Full text available: pdf(771.13 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Advances in simulation technologies: FSM-based transaction-level functional coverage for interface compliance verification



Man-Yun Su, Che-Hua Shih, Juinn-Dar Huang, Jing-Yang Jou

January 2006 **Proceedings of the 2006 conference on Asia South Pacific design automation ASP-DAC '06**

**Publisher:** ACM Press

Full text available: pdf(285.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Interface compliance verification plays a very important role in modern SoC designs. In order to perform a quantitative analysis of simulation completeness, adequate coverage metrics are mandatory. In this paper, we propose a finite state machine (FSM) based transaction-level functional coverage methodology for interface compliance verification. A language, State-Oriented Language (SOL), is developed to specify functional transactions mainly at the higher FSM level instead of lower logic or sign ...

15 An Interactive Simulation System for structured logic design—ISS

Takeshi Sakai, Yoshiyuki Tsuchida, Hiroto Yasuura, Yasushi Ooi, Yoshitsugu Ono, Hiroshi Kano, Shinji Kimura, Shuzo Yajima

January 1982 **Proceedings of the 19th conference on Design automation DAC '82**


**Publisher:** IEEE Press

Full text available: pdf(688.42 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An Interactive Simulation System (ISS) is presented. ISS is an integrated interactive CAD system for logic design, and is configured "module oriented" to support structured logic design. An Interactive Simulator (IS) is used for design verification. A designer can

control simulation steps interactively in IS, and he can find design errors early using a good interactive interface. A Structured Hardware Design Language (SHDL) is used to describe logic designs.

16 Demonstrations: Group 3: MetaQuerier: querying structured web sources on-the-fly


 Bin He, Zhen Zhang, Kevin Chen-Chuan Chang  
June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data SIGMOD '05**

**Publisher:** ACM Press

Full text available:  [pdf\(288.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Recently, we witness the rapid growth and thus the prevalence of databases on the Web. Our recent survey [2] in April 2004 estimated 450,000 online databases. On this deep Web, myriad online databases provide dynamic query-based data access through their *query interfaces*, instead of static URL links. As the door to the deep Web, it is essential to integrate these query interfaces for integrating the deep Web.

17 Cadena: enabling CCM-based application development in Eclipse


 Venkatesh Prasad Ranganath, Adam Childs, Jesse Greenwald, Matthew B. Dwyer, John Hatcliff, Gurdip Singh  
October 2003 **Proceedings of the 2003 OOPSLA workshop on eclipse technology eXchange eclipse '03**

**Publisher:** ACM Press

Full text available:  [pdf\(156.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

To support the trend toward component-based systems, the Cadena project aims to provide an Eclipse-based development environment that includes support for design, behavior modeling, formal reasoning, and automated code synthesis for systems built using the CORBA Component Model. In this paper, we describe the basic functionality of the Cadena tool, and summarize how it is currently being evaluated by industrial partners for use in developing high-assurance avionics applications.

18 Instrumentation in software dynamic translators for self-managed systems

 Naveen Kumar, Jonathan Misurda, Bruce R. Childers, Mary Lou Soffa  
October 2004 **Proceedings of the 1st ACM SIGSOFT workshop on Self-managed systems WOSS '04**

**Publisher:** ACM Press

Full text available:  [pdf\(219.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Self-managed software requires monitoring and code changes to an executing program. One technology that enables such self management is software dynamic translation (SDT), which allows a program's execution to be intercepted and controlled by a separate software layer. SDT has been used to build many useful applications, including software security checkers that check for code vulnerabilities, dynamic code optimizers, and program introspection tools. While these systems use program instrumentati ...

19 Automatic interoperability test generation for source-to-source translators

 Mark Molloy, Kristy Andrews, James Herren, David Cutler, Paul Del Vigna  
March 1998 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1998 ACM SIGSOFT international symposium on Software testing and analysis ISSTA '98**, Volume 23 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(766.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes a strategy for automatically generating tests which ensure interface compatibility between software components expressed in two different languages. This strategy is useful for testing code produced by a source-to-source computer language translator and for testing the compatibility of compilers for the different languages.

**Keywords:** automated testing, language conversion, legacy data, legacy software, source-to-source translation, test generation

**20** Hierarchical architecture for real-time adaptive resource management

Inout Cardei, Rakesh Jha, Mihaela Cardei, Allalaghatta Pavan

April 2000 **IFIP/ACM International Conference on Distributed systems platforms  
Middleware '00****Publisher:** Springer-Verlag New York, Inc.Full text available:  [pdf\(261.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper presents the Real Time Adaptive Resource Management system (RTARM<sup>1</sup>), developed at the Honeywell Technology Center. RTARM supports provision of integrated services for real-time distributed applications and offers management services for end-to-end QoS negotiation, QoS adaptation, real-time monitoring and hierarchical QoS feedback adaptation. In this paper, we focus on the hierarchical architecture of RTARM, its flexibility, internal mechanisms and protocols that enable ...

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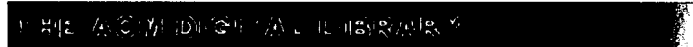


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Published before December 2001

Terms used: intelligent interface configuration

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# 1 [Communicating With High-Level Plans](#)



Jeffrey Bonar

July 1988 **ACM SIGCHI Bulletin**, Volume 20 Issue 1

Publisher: ACM Press

Full text available: [pdf\(115.89 KB\)](#) Additional Information: [full citation](#), [abstract](#)

This paper provides support for the following points regarding the design of intelligent interfaces (or more generally, intelligent dialog systems): 1) Constraints of human dialog processing, including limited attention span and partial understanding, should be dealt with explicitly in design of intelligent dialog systems; 2) An intelligent dialog system should be a partly autonomous agent, though accountable to its users; 3) An intelligent dialog system should be designed to incorporate explici ...

# 2 [Applications for enterprise simulation](#)



Roland R. Mielke

December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation--a bridge to the future - Volume 2 WSC '99**

Publisher: ACM Press

Full text available: [pdf\(405.97 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

# 3 [A multi-agent system for personal messaging](#)



John F. Meech, Katherine Baker, Edith Law, Ramiro Liscano

June 2000 **Proceedings of the fourth international conference on Autonomous agents AGENTS '00**

Publisher: ACM Press

Full text available: [pdf\(218.75 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** adaptive interface, intelligent interface, intelligent interface agent, seamless messaging, software agent, telecommunications, unified messaging

# 4 [Provision of market services for eCo compliant electronic marketplaces](#)



Sena Arpinar, Asuman Dogac

September 2000 **ACM SIGMOD Record**, Volume 29 Issue 3

Publisher: ACM Press

Full text available: [pdf\(49.72 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The progress and wider dissemination of electronic commerce will be facilitated through interoperability infrastructures. Commerce Net's eCo framework is a promising effort in this direction. In the eCo framework, businesses participate in a marketplace through standard interfaces for their services and by exchanging standardized documents. This framework does not specify any further interfaces for the services a marketplace itself may offer. In this paper, we demonstrate that a rich set of marke ...

## 5 Overview to the Fifth Generation Computer System project



Tohru Moto-oka

June 1983 **ACM SIGARCH Computer Architecture News , Proceedings of the 10th annual international symposium on Computer architecture ISCA '83**, Volume 11 Issue 3

**Publisher:** IEEE Computer Society Press, ACM Press

Full text available: [pdf\(467.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computers which have high performances for non-numeric data processing should be developed in order to satisfy and expand new applications which will become predominant fields in information processing of the 1990s. Knowledge information processing forming the main part of applied artificial intelligence is expected to be one of the important fields in 1990s information processing and the dedicated computers for this have been selected as the main theme of the national project of ...

## 6 A toolset for systematic observation and evaluation of computer-human interaction



James Hicinbothom, Mark Watanabe, William Weiland, James Boardway, Wayne Zachary  
April 1994 **Conference companion on Human factors in computing systems CHI '94**

**Publisher:** ACM Press

Full text available: [pdf\(255.58 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

## 7 Integrating IBIS simulations and systems planning models through multiple model communications



M. G. Ketcham, R. Rajagopalan

October 1989 **Proceedings of the 21st conference on Winter simulation WSC '89**

**Publisher:** ACM Press

Full text available: [pdf\(576.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a multiple-process, multiple-windowed environment that allows users to interact with several models concurrently, including IBIS simulations. One goal in designing this environment is the transparent integration of simulation with other types of models, such as mathematical models for production planning. Its capabilities include interactive development of experiment specifications, automatic reconfiguration of simulations based on changing system specifications, and concurr ...

## 8 Explicit Models in Intelligent Interface Design



James A. Mason, Jack L. Edwards

July 1988 **ACM SIGCHI Bulletin**, Volume 20 Issue 1



**Publisher:** ACM Press

Full text available: [pdf\(220.64 KB\)](#) Additional Information: [full citation](#), [abstract](#)



AI has made significant advances in the design of graphical knowledge-based interfaces. One type of knowledge-based interface, the graphical model editor, extends the "toolkit notion of interface", exemplified by Bill Budge's Pinball Constructor Set 1. In these interfaces, "the desired operations are done simply by moving the appropriate icons onto the screen and connecting them together. Connecting the icons is the equivalent of writing a program... There are no hidden operations, no syntax of ...

## 9

### A flexible port traffic planning model



-  Randall R. Gibson, Beth C. Carpenter, Scott P. Seeburger  
December 1992 **Proceedings of the 24th conference on Winter simulation WSC '92**  
**Publisher:** ACM Press  
Full text available:  [pdf\(1.03 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

10 The metrobridge: a backbone network distributed switch

-  K. Zielinski, M. Chopping, D. Milway, A. Hopper, B. Robertson  
July 1991 **ACM SIGCOMM Computer Communication Review**, Volume 21 Issue 3  
**Publisher:** ACM Press  
Full text available:  [pdf\(1.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)


This paper describes the Metrobridge project - a distributed switch for connecting PC cards via a high-speed ATM-style backbone network. Initially the system architecture is outlined, then certain aspects are examined in more detail. Topics discussed include learning and routing algorithms, access/routing control, management functions, and applications.

11 Multiprocessor simulation of neural networks with NERV



-  R. Manner, R. Horner, R. Hauser, A. Genthner  
August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing Supercomputing '89**  
**Publisher:** ACM Press  
Full text available:  [pdf\(1.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A general-purpose simulation system for neural networks is computationally very demanding. This paper presents some estimations of the computing power required, the necessary interconnection bandwidth, and the requisite memory size. Next, the hardware architecture of the NERV multiprocessor system is derived that fulfills these requirements. Up to 320 processors 68020 are used in a single VME crate together with a Macintosh II as a host computer. This set-up provides a computing power of 13 ...

12 The price of flexibility



-  David D. Woods  
February 1993 **Proceedings of the 1st international conference on Intelligent user interfaces IUI '93**  
**Publisher:** ACM Press  
Full text available:  [pdf\(736.82 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

13 The LDF 100: a large grain dataflow parallel processor

-  Ian Kaplan  
July 1987 **ACM SIGARCH Computer Architecture News**, Volume 15 Issue 3  
**Publisher:** ACM Press  
Full text available:  [pdf\(665.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)


The LDF 100 is a large grain dataflow parallel processor. The system is designed to be incrementally expandable from 10 to over 128 processing elements. To avoid memory contention or prohibitive cost, the LDF 100 uses a distributed memory architecture. The LDF 100 also supports parallelism in the processing element. Each processing element consists of two microprocessors. One microprocessor is responsible for collecting data from the dataflow bus and one microprocessor is responsible for applying ...

14 Graphical Knowledge-Based Structure Editors

-  Marilyn Stelzner, Allen Cypher  
July 1988 **ACM SIGCHI Bulletin**, Volume 20 Issue 1  
**Publisher:** ACM Press  
Full text available:  [pdf\(115.89 KB\)](#) Additional Information: [full citation](#), [abstract](#)

We discuss our experience with an interface that gives users the ability to directly represent and manipulate goals at several levels of detail. The interface is built into Bridge, a tutorial environment for novice programmers [Bonar88]. The name comes from our intended "bridge" between novice and expert conceptions of programming. In order to understand student designs and partial programs, Bridge provides languages that allow a student to talk about his or her high-level designs and partial wo ...

### 15 Presentation Planning Using an Integrated Knowledge Base

 Yigal Arens, Lawrence Miller, Norman Sondheimer  
July 1988 **ACM SIGCHI Bulletin**, Volume 20 Issue 1

**Publisher:** ACM Press

Full text available:  [pdf\(213.07 KB\)](#) Additional Information: [full citation](#), [abstract](#)

ISI is involved in user interface research aimed at bringing together multiple input and output modes in a way that handles mixed mode input (commands, menus, forms, natural language), interacts with a diverse collection of underlying software utilities in a uniform way, and presents the results through a combination of output modes including natural language text, maps, charts and graphs. Our system, Integrated Interfaces, derives much of its ability to interact uniformly with the user and the ...

### 16 Technical Papers: Discovery of ontologies from knowledge bases

 Hendra Suryanto, Paul Compton  
October 2001 **Proceedings of the 1st international conference on Knowledge capture K-CAP '01**

**Publisher:** ACM Press

Full text available:  [pdf\(244.50 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current approaches to building knowledge-based systems propose the development of an ontology as a precursor to building the problem-solver. This paper outlines an attempt to do the reverse and discover interesting ontologies from systems built without the ontology being explicit. In particular the paper considers large classification knowledge bases used for the interpretation of medical chemical pathology results and built using Ripple-Down Rules (RDR). The rule conclusions in these knowledge ...

**Keywords:** knowledge acquisition, machine learning, ontology

### 17 Process design of oil and gas production facilities using expert systems

 Hafez Aghili, George Montgomery, Al Amlani, Jatin Shah  
June 1988 **Proceedings of the 1st international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 IEA/AIE '88**

**Publisher:** ACM Press

Full text available:  [pdf\(754.72 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

An expert system known as the Automated Project Design System (APDS™) has been developed to assist process and facilities engineers in performing preliminary feasibility studies, optimization studies, and provide the basic information required for the initiation of the detailed design for offshore oil and gas production facilities. Given the feedstock and product specifications, the expert system produces a preliminary process flow diagram showing all major pieces of equipm ...

### 18 Perceptual user interfaces: perceptual intelligence

 Alex Pentland  
March 2000 **Communications of the ACM**, Volume 43 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(812.65 KB\)](#)  [html\(33.98 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**19** Intelligent user interfaces for correspondence domains (panel session): moving IUIs**off the desktop**

Christopher A. Miller, Christine Mitchell, Patty Lakinsmith, Reiner Onken, Robin Penner, Valerie Shalin

January 2000 **Proceedings of the 5th international conference on Intelligent user interfaces IUI '00**

**Publisher:** ACM Press

Full text available: [pdf\(718.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper is about the elicitation of the requirements for an intelligent interface for a software test development environment that will accommodate the physically challenged (PC). This research explores the use of eye-tracking mechanisms and digital manipulative user interfaces that are especially enhanced for the PC. In addition these devices provide assistance for the knowledge elicitation phase for an Intelligent User Interface to such an environment. It was never a stated objective o ...

**20** Enriching buyers' experiences: the SmartClient approach

Pearl Pu, Boi Faltings

April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '00**

**Publisher:** ACM Press

Full text available: [pdf\(3.82 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In electronic commerce, a satisfying buyer experience is a key competitive element. We show new techniques for better adapting interaction with an electronic catalog system to actual buying behavior. Our model replaces the sequential separation of needs identification and product brokering with a conversation in which both processes occur simultaneously. This conversation supports the buyer in formulating his or her needs, and in deciding which criteria to apply in selecting a product to buy. ...

**Keywords:** client-server architecture, constraint solver, eCommerce, on-line travel planning systems, visual overview

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